Carnegie Mellon University
Software Engineering Institute

Process Maturity Profile

CMMI® v1.1
SCAMPISM v1.1 Class A Appraisal Results
2004 Year End Update

March 2005

We could not produce this report without the support of the organizations and lead appraisers who reported their appraisal results to the SEISM.

Our many thanks for their continuing cooperation with our data collection and analysis efforts.

CMMI Appraisal Program

Report Documentation Page

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Outline

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Terms used in this Briefing

How to Report your Appraisal Results to the SEI

This briefing is based solely on the number of appraisals reported to the SEI. It cannot be used as a source for an exact indicator of all organizations in the world using SEI models or appraisal methods nor can it be used for certification or verification purposes.

The SEI does not certify appraisal results or organizations. The SEI licenses SEI Partners, authorizes lead appraisers and authorizes approved team leaders to conduct appraisals. Neither the SEI nor any other organization is a "certifying authority" of the results from a SCAMPI appraisal. Therefore requests to the SEI to provide information to be used for this purpose can not be fulfilled. Information provided by the SEI, such as this briefing, is to demonstrate reported results of the use of its products and services only.

Organizations performing source selection or verification should consider performing an evaluation appraisal. For more information on appraisal methods and for a directory of authorized lead appraisers who can perform them, visit: http://www.sei.cmu.edu/managing/app.directory.html

Introduction: Purpose

Characterize the adoption of CMMI®

Describe results from Standard CMMI Appraisal Method for Process Improvement (SCAMPI℠), v1.1 Class A appraisals using Capability Maturity Model Integration® (CMMI) v1.1 *

Encourage continued reporting of results

* Organizations previously appraised against CMMI v1.0 and which have not reappraised against v 1.1 are not included in this report

Please visit: http://www.sei.cmu.edu/sema/profile_about.html for additional information or questions you may have about this briefing before contacting the SEI directly

Section 1. Current Status

SCAMPI v1.1 Class A appraisals conducted from its April 2002 release through December 2004 and reported to the SEI by January 2005

- 630 appraisals
- 567 organizations
- 298 participating companies
- 56 reappraised organizations
- 2,339 projects
- 56.1% Non-USA organizations

Please refer to: Terms Used in this Report on page 19

Additional charts providing different views and break down of this information will be added to this briefing as more appraisal data is reported to the SEI over time.

Maturity Profile
by All Reporting Organizations
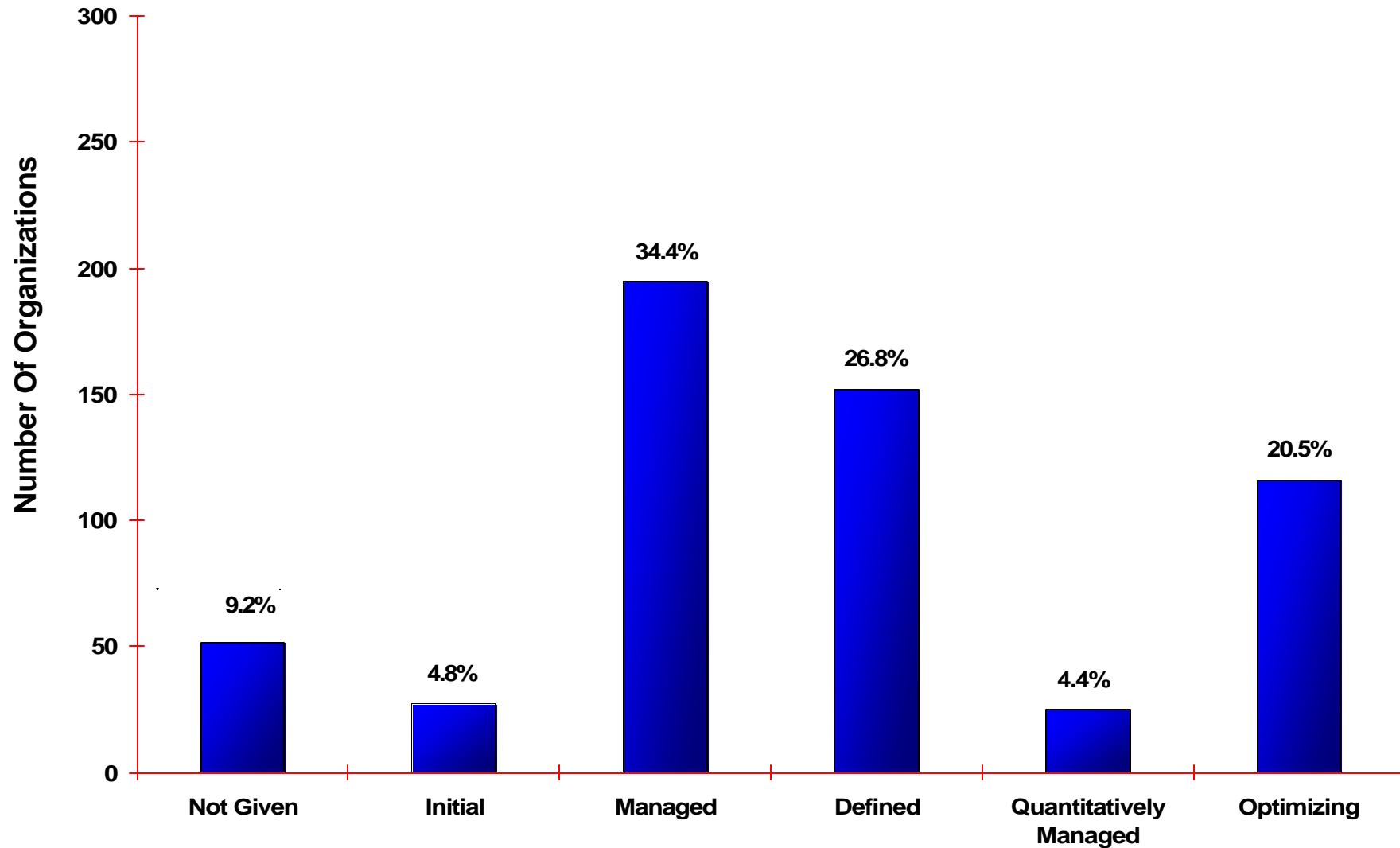
Based on most recent appraisal of **567** organizations

Reporting Organizational Categories

Based on **567** organizations
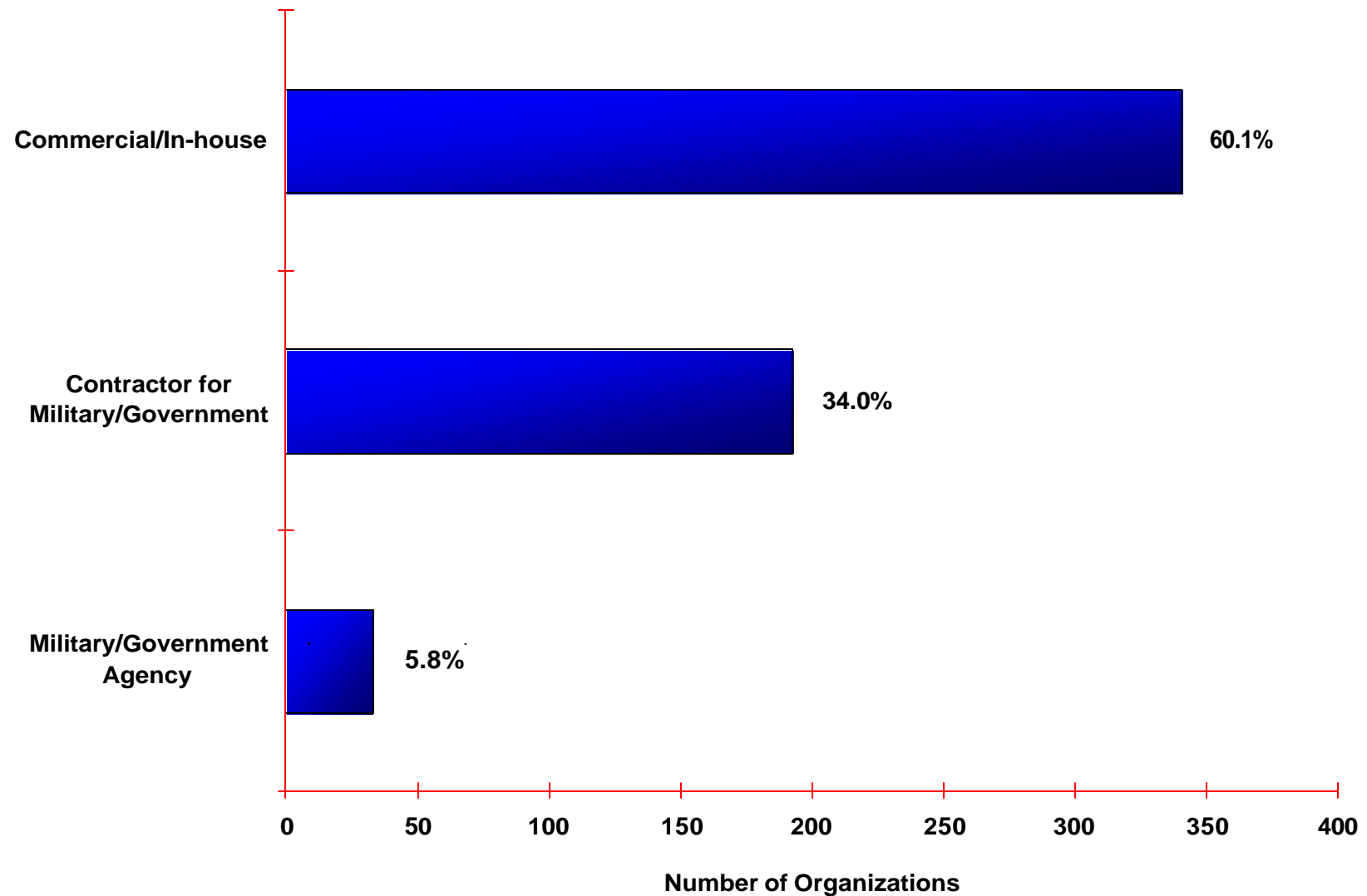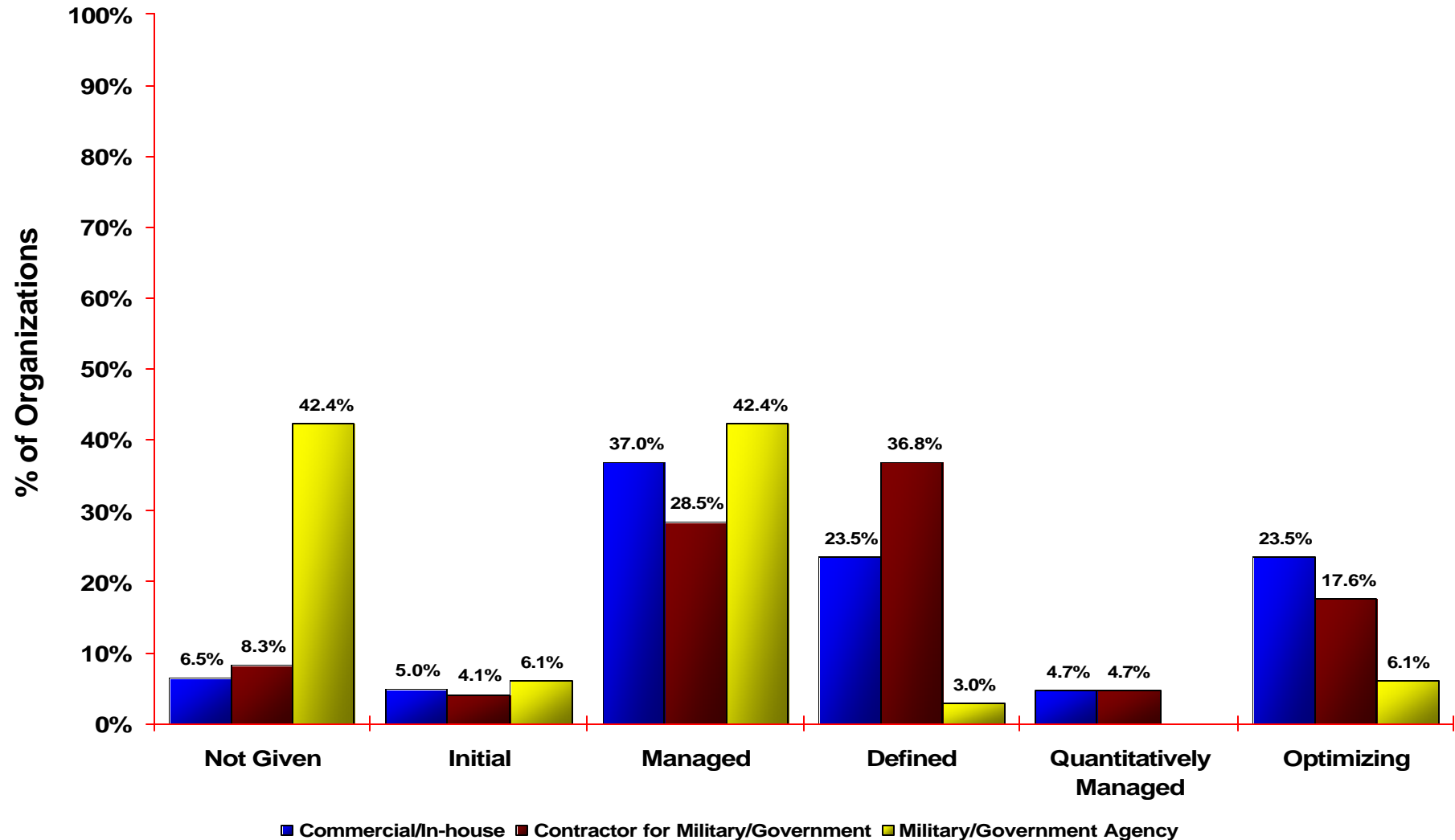
Maturity Profile
by Reporting Organization Categories

Based on most recent appraisal, of **567** organizations

Organization Type
Based on Primary Standard Industrial Classification (SIC) Code

Transportation, Communication, Electric, Gas and Sanitary Services
2.0%

Wholesale Trade
0.8%

Finance, Insurance and Real Estate
6.7%

Public Administration (Including Defense)
13.0%

Business Services
37.2%

Fabricated Metal Products
0.4%

Primary Metal Industries
0.8%

Services 52.6%

Industrial Machinery And Equipment
2.0%

Electronic & Other Electric Equipment
4.7%

Manufacturing 24.9%

Instruments And Related Products
5.5%

Engineering & Management Services
13.0%

Transportation Equipment
11.5%

Other Services
1.6%

Health Services
0.8%

Based on **253** organizations reporting SIC code. For more information visit: http://www.osha.gov/oshstats/sicser.html

Organization Size

Based on the total number of employees within the area of the organization that was appraised
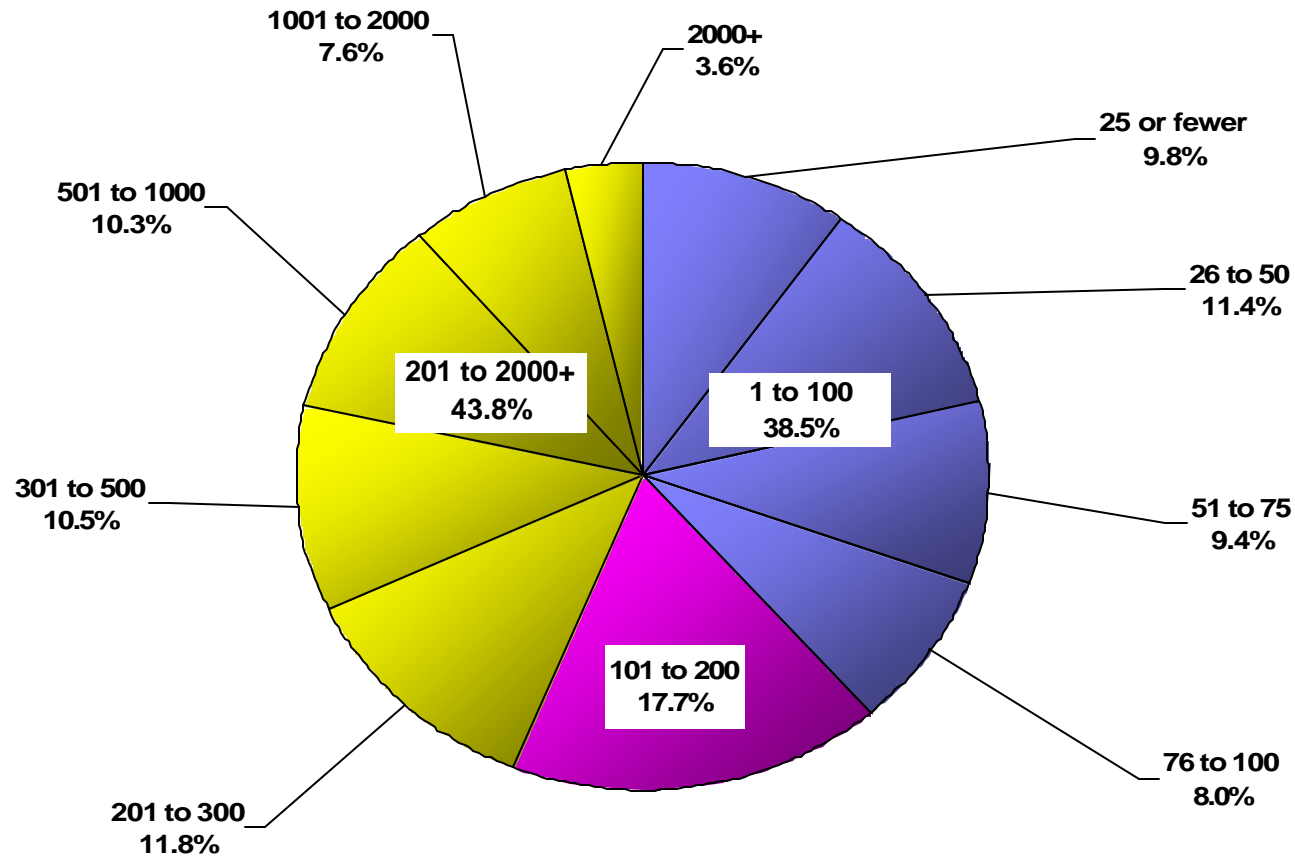
Based on **553** organizations reporting size data

Maturity Profile by Organization Size

Based on the total number of employees within the area of the organization that was appraised
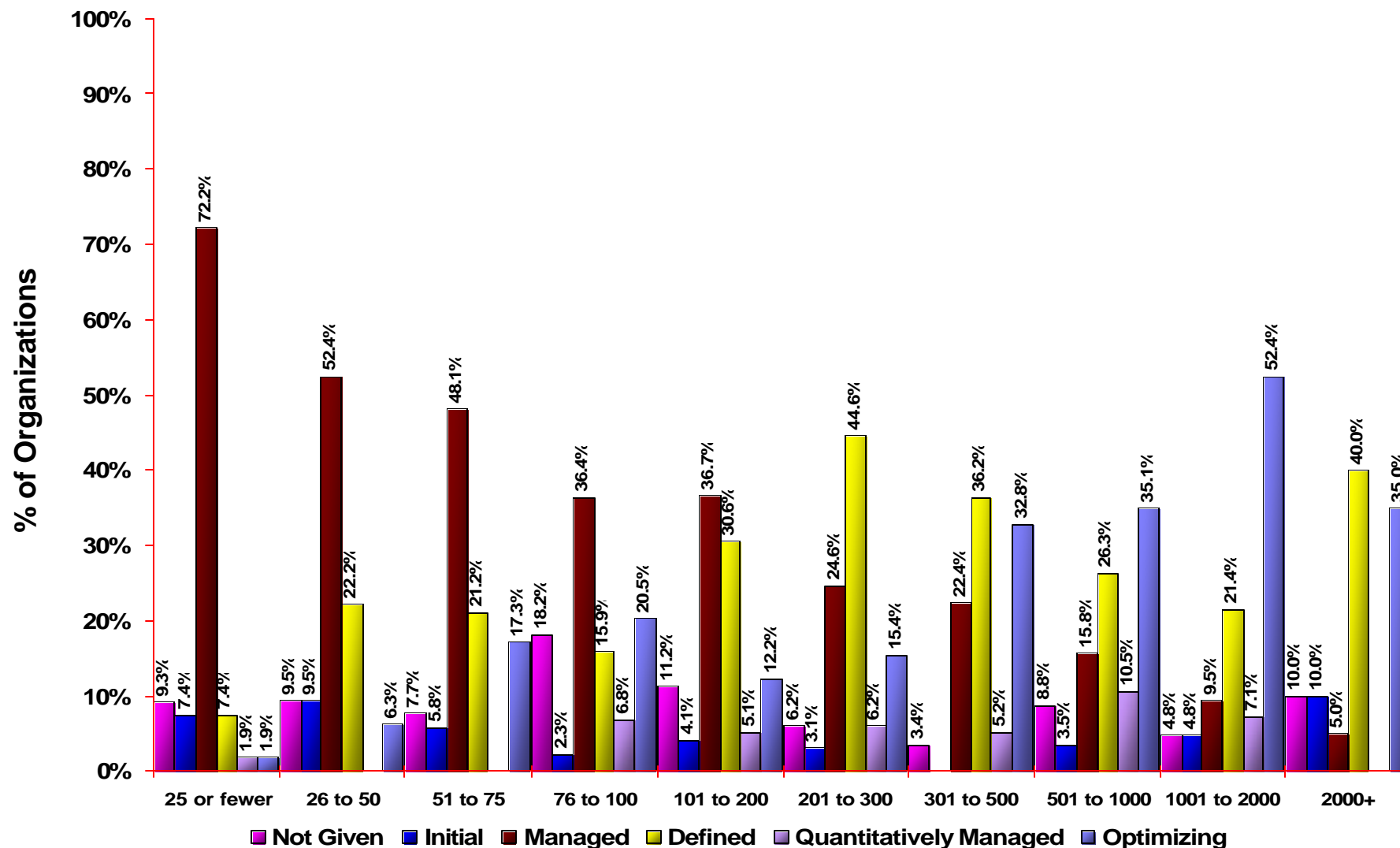

% of Organizations (vertical axis, 0% to 100%)

Categories (horizontal axis): 25 or fewer, 26 to 50, 51 to 75, 76 to 100, 101 to 200, 201 to 300, 301 to 500, 501 to 1000, 1001 to 2000, 2000+

Legend: ■ Not Given ■ Initial ■ Managed ■ Defined ■ Quantitatively Managed ■ Optimizing

25 or fewer: 9.3%, 7.4%, 72.2%, 7.4%, 1.9%, 1.9%
26 to 50: 9.5%, 9.5%, 52.4%, 22.2%
51 to 75: 6.3%, 7.7%, 5.8%, 48.1%, 21.2%
76 to 100: 17.3%, 18.2%, 2.3%, 36.4%, 15.9%, 6.8%, 20.5%
101 to 200: 11.2%, 4.1%, 36.7%, 30.6%, 5.1%, 12.2%
201 to 300: 6.2%, 3.1%, 24.6%, 44.6%, 6.2%, 15.4%, 3.4%
301 to 500: 22.4%, 5.2%, 36.2%, 32.8%
501 to 1000: 8.8%, 3.5%, 15.8%, 26.3%, 10.5%, 35.1%
1001 to 2000: 4.8%, 4.8%, 9.5%, 21.4%, 7.1%, 52.4%
2000+: 10.0%, 10.0%, 5.0%, 40.0%, 35.0%

Based on **553** organizations reporting size data

Disciplines Selected for Appraisals

SE   = System Engineering
SW   = Software Engineering
IPPD = Integrated Product and
        Process Development
SS   = Supplier Sourcing

Discipline	Percentage
SE/SW	48.6%
SW	32.5%
SE/SW/IPPD/SS	5.4%
SE/SW/SS	5.4%
SE	3.7%
SE/SW/IPPD	2.2%
SW/IPPD	1.1%
SW/SS	0.6%
SE/SS	0.3%
SE/IPPD/SS	0.2%
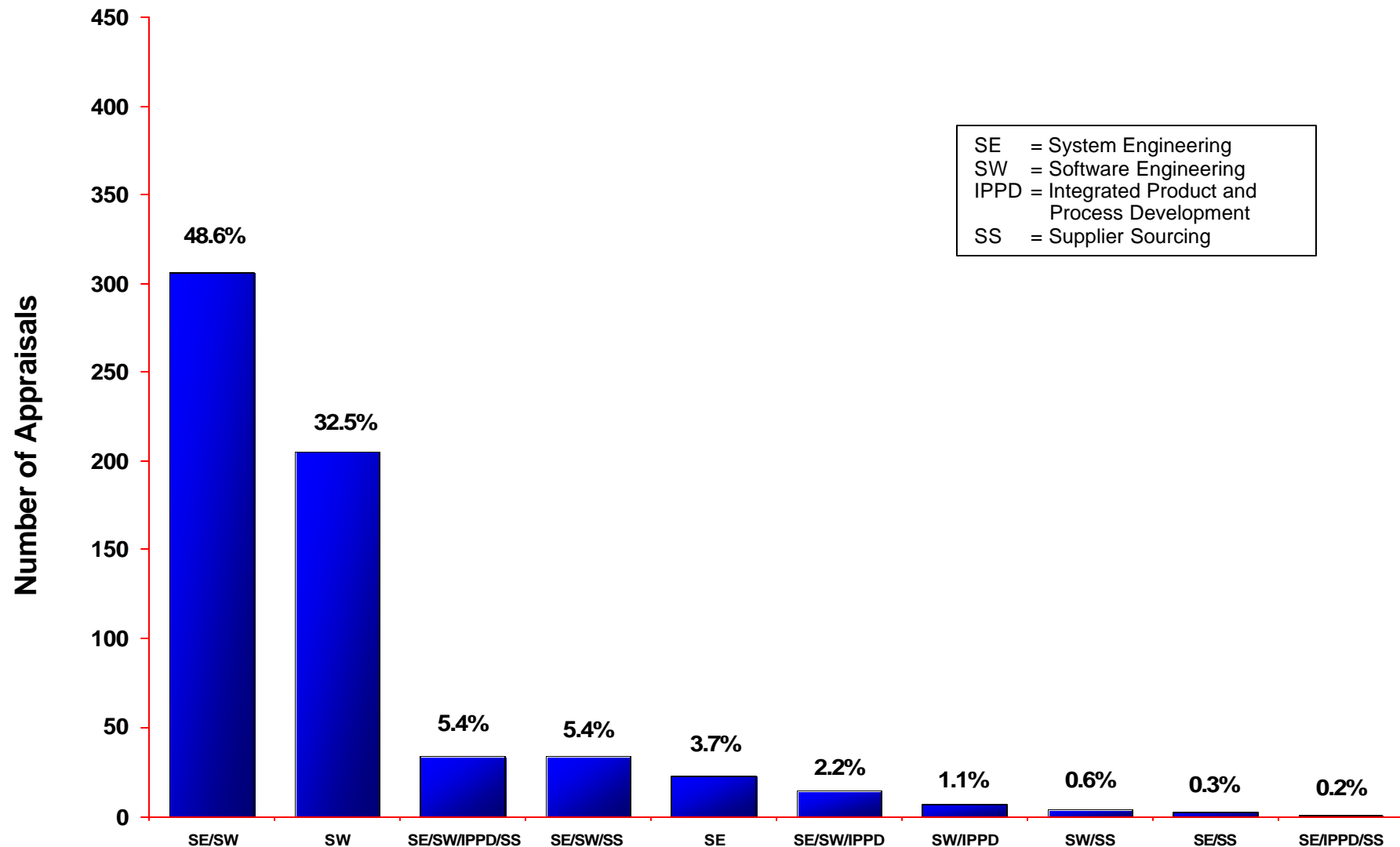
Based on **630** appraisals

For more information about Allowable Models & Combinations, visit: http://www.sei.cmu.edu/cmmi/background/aspec.html

Countries where Appraisals have been Performed <u>and</u> Reported to the SEI
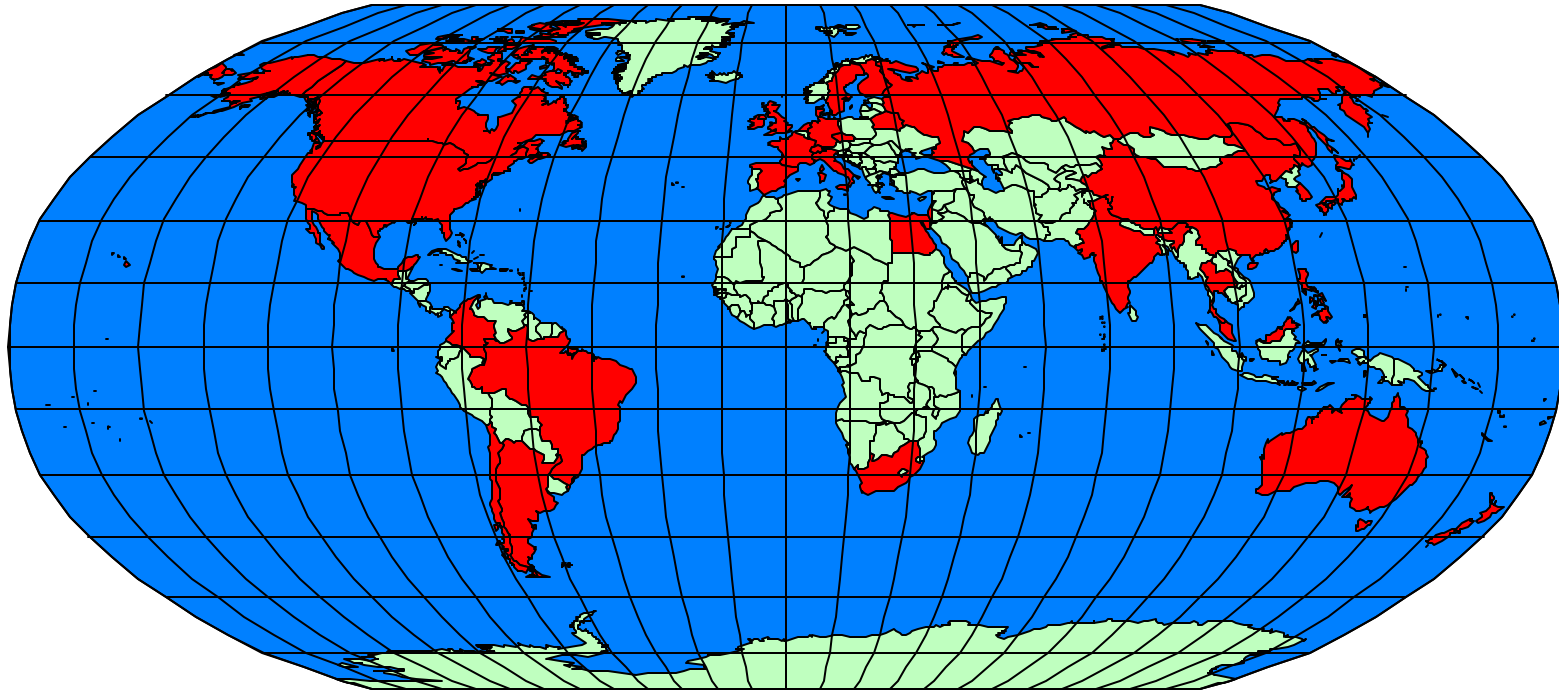
Argentina	Australia	Belarus	Brazil	Canada	Chile	China
Colombia	Czech Republic	Denmark	Egypt	Finland	France	Germany
Hong Kong	India	Ireland	Israel	Italy	Japan	Korea, Republic of
Malaysia	Mexico	Netherlands	New Zealand	Philippines	Russia	Singapore
South Africa	Spain	Sweden	Switzerland	Taiwan	Thailand	United Kingdom
United States						

Red country name: New additions with this reporting

USA and Non-USA
Reporting Organization Categories
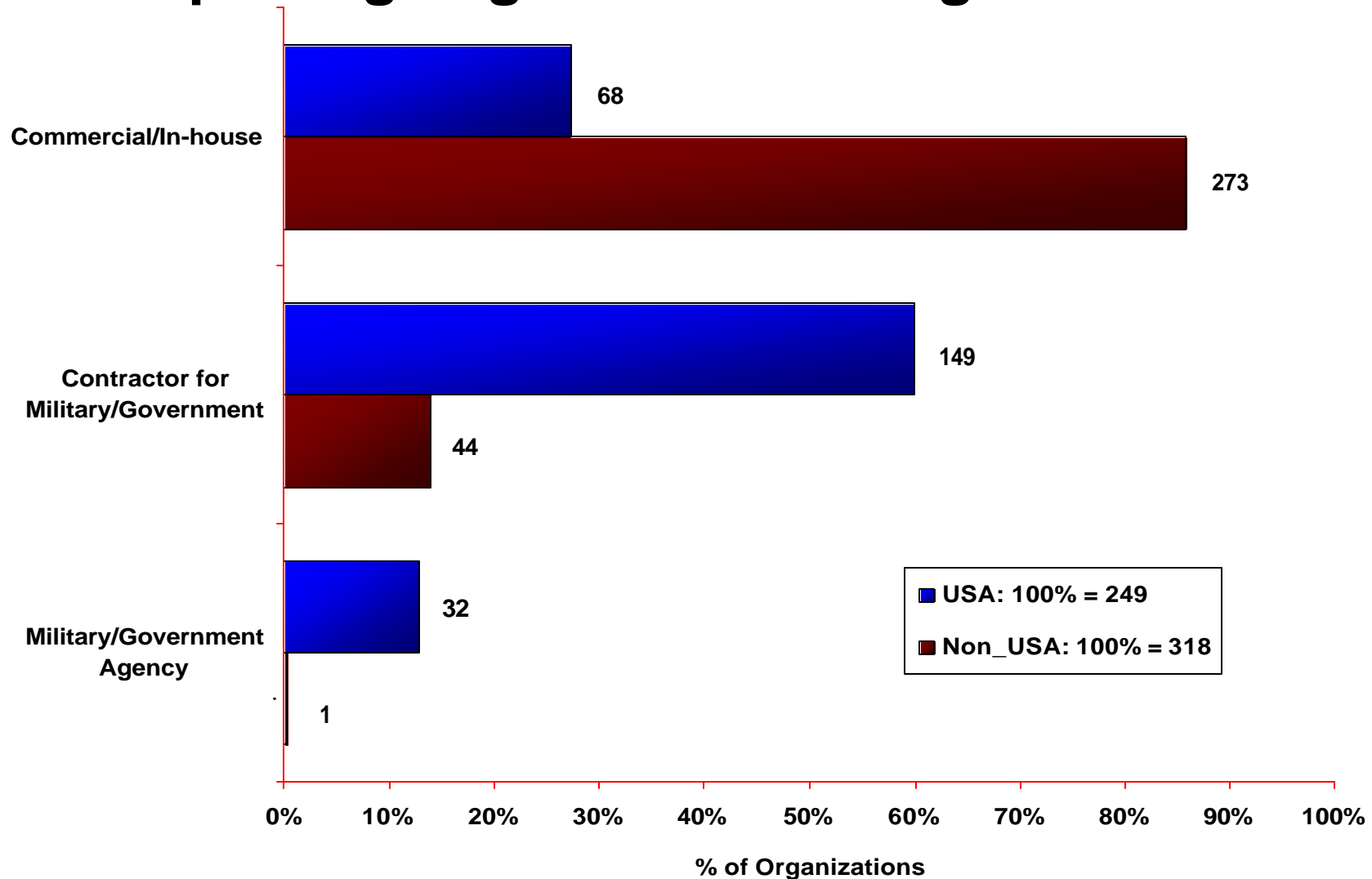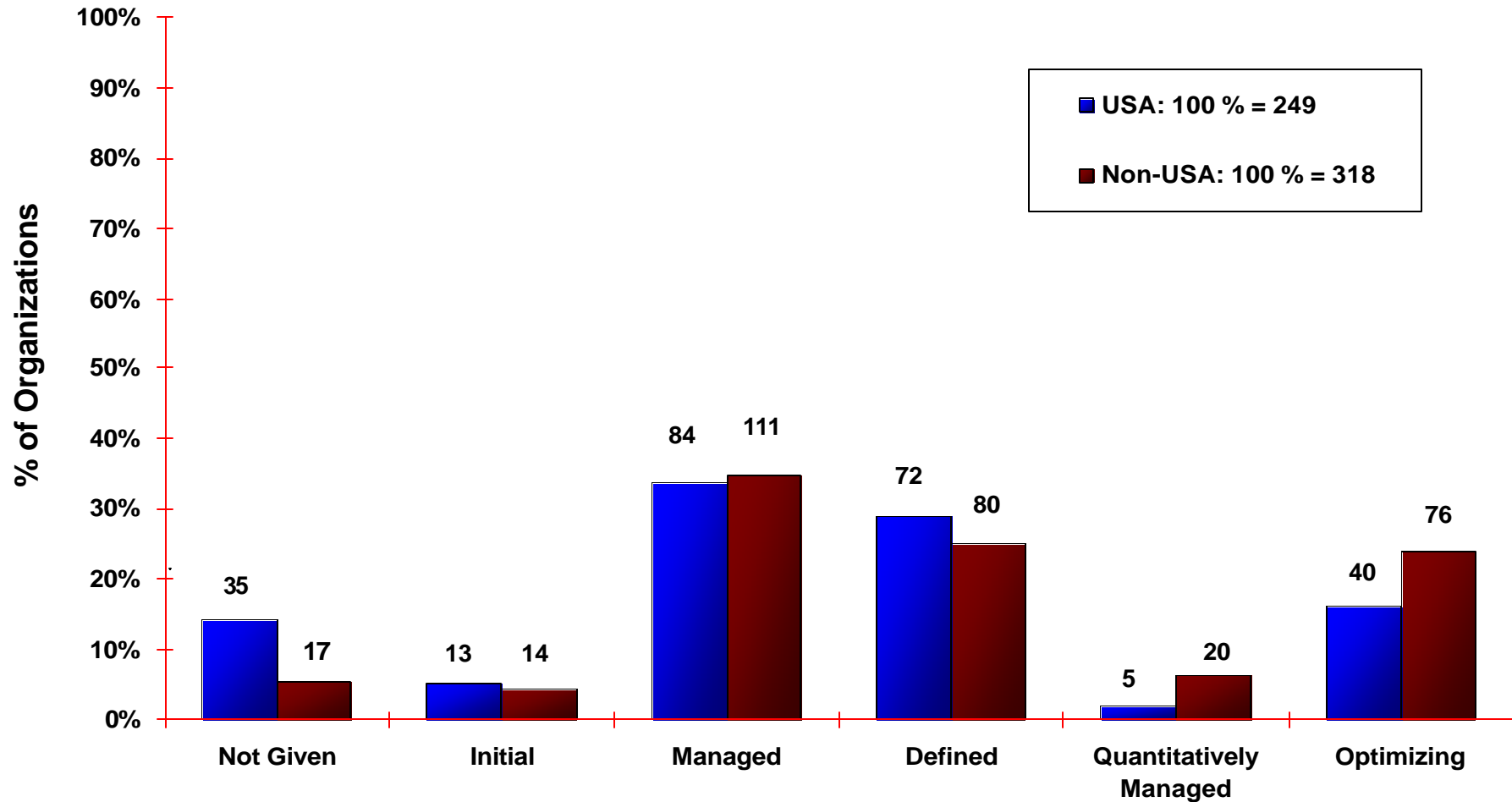

% of Organizations

Based on **249** USA organizations and **318** Non-USA organizations

Maturity Profile by All Reporting USA and Non-USA Organizations

% of Organizations

Legend:
- **USA: 100 % = 249**
- **Non-USA: 100 % = 318**

Category	USA	Non-USA
Not Given	35	17
Initial	13	14
Managed	84	111
Defined	72	80
Quantitatively Managed	5	20
Optimizing	40	76

Based on **249** USA organizations and **318** Non-USA organizations

Number of Appraisals and Maturity Levels Reported to the SEI by Country

| Country	Number of Appraisals	Maturity Level 1 Reported	Maturity Level 2 Reported	Maturity Level 3 Reported	Maturity Level 4 Reported	Maturity Level 5 Reported	Country	Number of Appraisals	Maturity Level 1 Reported	Maturity Level 2 Reported	Maturity Level 3 Reported	Maturity Level 4 Reported	Maturity Level 5 Reported
Argentina	10 or fewer						Italy	10 or fewer					
Australia	12	Yes	Yes	Yes	Yes	Yes	Japan	77	Yes	Yes	Yes	Yes	Yes
Belarus	10 or fewer						Korea, Republic of	23	Yes	Yes	Yes	Yes	Yes
Brazil	10 or fewer						Malaysia	10 or fewer					
Canada	10 or fewer						Mexico	10 or fewer					
Chile	10 or fewer						Netherlands	10 or fewer					
China	34	Yes	Yes	Yes	No	Yes	New Zealand	10 or fewer					
Colombia	10 or fewer						Philippines	10 or fewer					
Czech Republic	10 or fewer						Russia	10 or fewer					
Denmark	10 or fewer						Singapore	10 or fewer					
Egypt	10 or fewer						South Africa	10 or fewer					
Finland	10 or fewer						Spain	10 or fewer					
France	18	Yes	Yes	Yes	No	No	Sweden	10 or fewer					
Germany	12	Yes	Yes	Yes	No	Yes	Switzerland	10 or fewer					
Hong Kong	10 or fewer						Taiwan	13	No	Yes	Yes	No	No
India	70	No	Yes	Yes	Yes	Yes	Thailand	10 or fewer					
Ireland	10 or fewer						United Kingdom	25	Yes	Yes	Yes	Yes	No
Israel	10 or fewer						United States	280	Yes	Yes	Yes	Yes	Yes

Process Area Profiles - 1
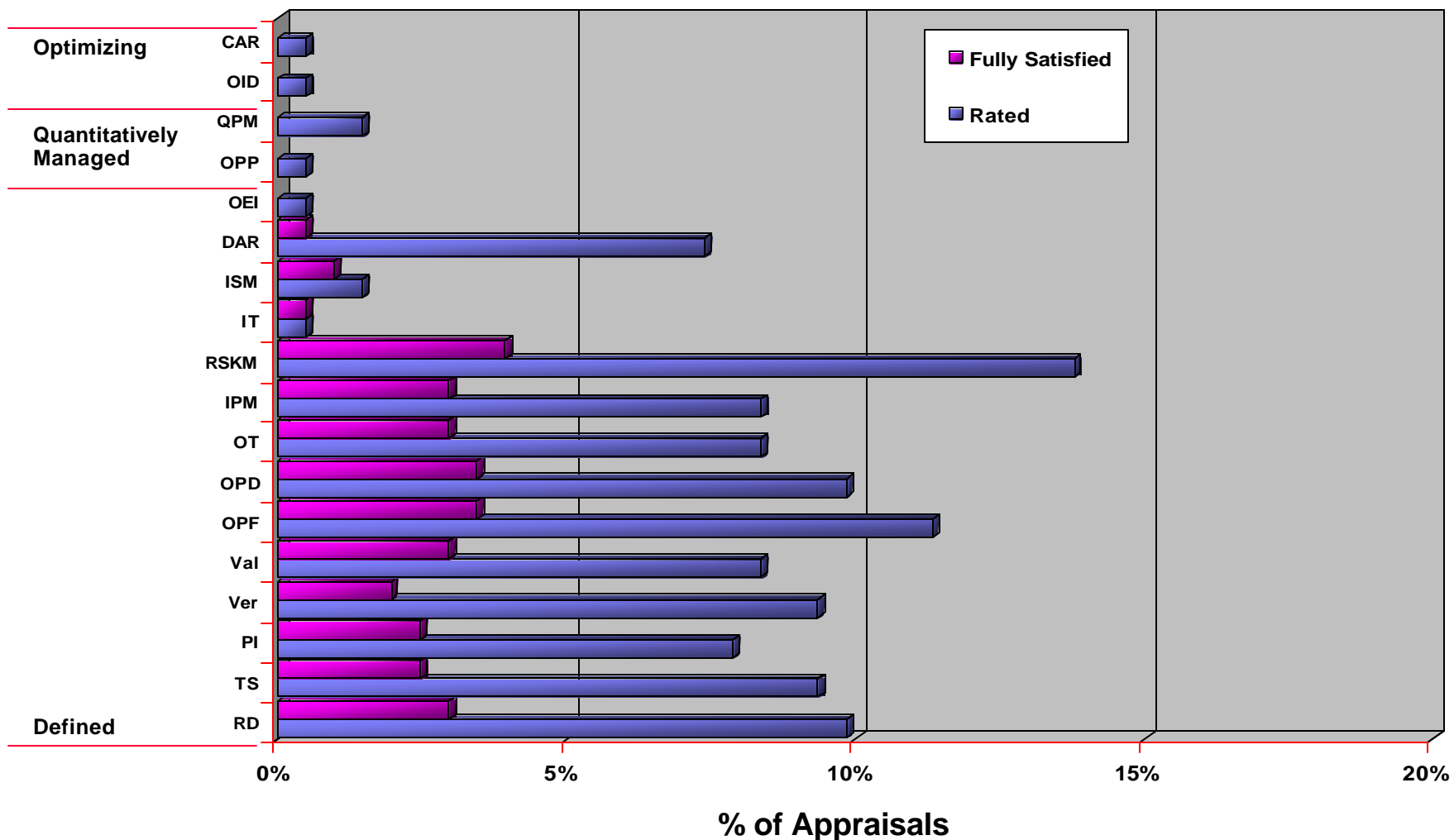# Organizations Appraised at Maturity Level 1
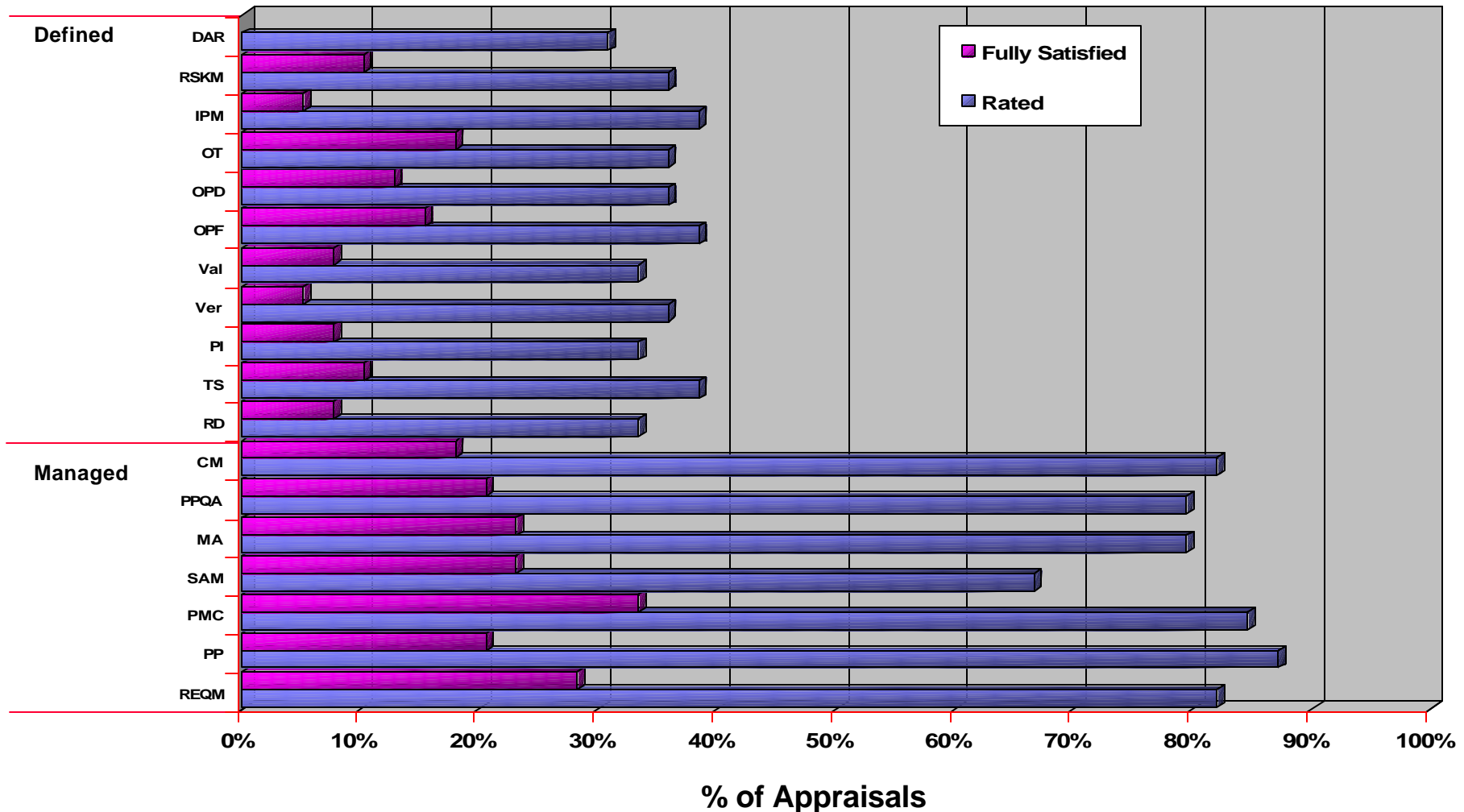
Based on **39** appraisals reporting a maturity level 1 rating

Process Area Profiles - 2
Organizations Appraised at Maturity Level 2

Based on **203** appraisals reporting a maturity level 2 rating

Summary

630 appraisals have been reported to the SEI in 34 months

Commercial/In-House organizations reporting appraisals is increasing more rapidly than other organizational categories

Government/Military and Government/Military Contractors reporting appraisals is increasing at a stable and consistent rate

The highest percentage of Commercial/In-House organizations reporting appraisals is from outside the USA

The highest percentage of Government/Military Contractors reporting appraisals is from the USA

Comparing early reports of the SW-CMM maturity profile with early CMMI data reflects a more mature CMMI® profile

Additional information and charts will be added to this briefing as more appraisals are reported and more data is available to support the breakdowns

Terms Used in this Report

Company   - Parent of the appraised entity
A company can be a commercial or non-commercial firm, for-profit or not for-profit business, a research and development unit, a higher education unit, a government agency, or branch of service, etc.

Organization - a.k.a. Appraised entity
The organization unit to which the appraisal results apply. An appraised entity can be the entire company, a selected business unit, units supporting a particular product line or service, etc.

Non-USA   - Appraised entity whose geographic location is not within the United States. The parent of the appraised entity may or may not be based within the United States.

Report your Appraisal Results to the SEI

The briefing is only possible due to the cooperation of organizations and individuals sending in their appraisal results to the SEI

In order to provide this information and service in the future, it will depend on this continued cooperation

Please visit:

http://www.sei.cmu.edu/sema/report.html

for forms, information, and instructions on how to report appraisals to the SEI

Contact Information

Please visit:

http://www.sei.cmu.edu/sema/profile_about.html

and review the information provided before contacting:

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